

ABSTRACT

A sequence of electronically captured images are converted into modified images providing the appearance of images captured by a film reproduction system, where the film reproduction system is of the type that

5 includes a motion picture negative film printed onto a motion picture print film that is displayed, or a reversal motion picture system in which a reversal film is displayed. After electronically capturing the images, the electronically captured image data is transformed into linearized exposure data, which is subsequently transformed with a linear function that emulates a film exposure of the film

10 reproduction system. The exposure-corrected images are then transformed with a non-linear function that renders the exposure-corrected images with a tone scale of the film reproduction system, and the tonescale-corrected images are transformed with a linear function that emulates a film color look provided by the film reproduction system. In order to achieve the desired results, the

15 transformation steps are referenced to scanned film densities of a film used in the film reproduction system.